BELKIN

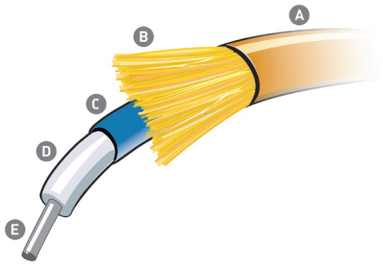
Structured Cabling Solutions

Belkin's Lifetime Warranty ensures performance and reliability

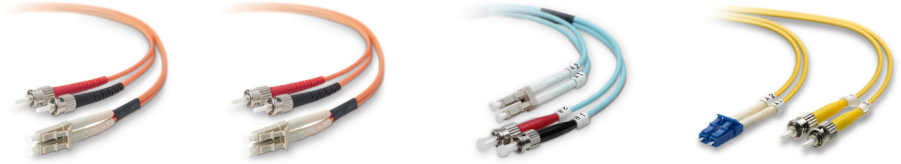
These cables ensure the performance and reliability of servers, storage, and network switches. Built using the highest-quality fibre cable and connectors, Belkin fibre-patch cables come with the satisfaction guarantee of Belkin's Lifetime Warranty. All Belkin fibre cables are factory-terminated and tested to ensure the highest level of performance and reliability.

All Belkin Fibre cables feature:

- Corning glass cores
- Ceramic ferrules
- 3M film for ferrule polish
- Epoxy terminated connectors
- ROHS-compliant, flexible PVC jacket
- 100% assembly tested
- A-tick certification
- Lifetime Warranty



- Ⓐ **Cable Jacket** - The outermost layer of the fibre cable.
- Ⓑ **Strengthening Fibres** - The strengthening fibres that help protect the core against damage during installation or from being crushed.
- Ⓒ **Coating** – This layer of thicker plastic surrounds the cladding and helps protect the fibre core.
- Ⓓ **Cladding** – The layer that protects the core and causes the necessary refraction to allow light to travel through the fibre-core segment.
- Ⓔ **Core** – The physical component that transports the optical data signal, made up of a continuous strand of glass. The core's diameter is measured in microns.



		62.5/125um Multimode Duplex	50/125um Multimode Duplex	50/125um 10G Aqua Multimode Duplex	8.3/125um Singlemode Duplex
Physical Specs	Temperature (Storage)	-20°C to 70°			
	Temperature (Operation)	-20°C to 80°			
	Flame Resistance	CCOFNR; UL-1666			
	Core Diameter (µm)	62.5	50	50	8.3
	Cladding Diameter (µm)	125			
	Buffer Diameter (µm)	900 ± 5um			
	Nominal Outer Diameter	3.0mm			
	Nominal Weight (kg/km)	15			
	Maximum Tensile Load				
	Short Term (N)	200			
	Long Term (N)	50			
	Minimum Bend Radius				
	Loaded (cm)	6.0	6.0	10.0	6.0
	Installed (cm)	3.0	3.0	5.0	3.0
Transmission Specs	Insertion Loss (dB)	<0.5 dB	<0.5 dB	<0.5 dB	<0.5 dB
	Minimum Return Loss (dB)				
	λ = 850nm	20	20	20	26
	λ = 1310nm	20	20	20	26
	Maximum Attenuation (dB/km)				
	λ = 850nm	0.7	2.3	2.5	-
	λ = 1310nm	0.6	0.55	0.7	0.4
	λ = 1550nm	-	-	-	0.22
	Minimum Model Bandwidth (MHz-km)				
	λ = 850nm	200	500	550	-
	λ = 1310nm	600	1000	-	-

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62.5/125 Multimode Fibre (ORANGE)

Connector	1 metre	2 metres	3 metres	5 metres	10 metres	20 metres
ST – ST	A2F20200-01M	A2F20200-02M	A2F20200-03M	A2F20200-05M	A2F20200-10M	A2F20200-20M
ST – SC	A2F20207-01M	A2F20207-02M	A2F20207-03M	A2F20207-05M	A2F20207-10M	A2F20207-20M
ST – LC	F2F202L0-01M	F2F202L0-02M	F2F202L0-03M	F2F202L0-05M	F2F202L0-10M	F2F202L0-20M
ST – MTRJ	F2F20290-01M	F2F20290-02M	F2F20290-03M	F2F20290-05M	F2F20290-10M	F2F20290-20M
SC – SC	A2F20277-01M	A2F20277-02M	A2F20277-03M	A2F20277-05M	A2F20277-10M	A2F20277-20M
SC – LC	F2F202L7-01M	F2F202L7-02M	F2F202L7-03M	F2F202L7-05M	F2F202L7-10M	F2F202L7-20M
SC – MTRJ	F2F20297-01M	F2F20297-02M	F2F20297-03M	F2F20297-05M	F2F20297-10M	F2F20297-20M
LC – LC	F2F202LL-01M	F2F202LL-02M	F2F202LL-03M	F2F202LL-05M	F2F202LL-10M	F2F202LL-20M
LC – MTRJ	F2F202L9-01M	F2F202L9-02M	F2F202L9-03M	F2F202L9-05M	F2F202L9-10M	F2F202L9-20M
MTRJ – MTRJ	F2F20299-01M	F2F20299-02M	F2F20299-03M	F2F20299-05M	F2F20299-10M	F2F20299-20M

50/125 Multimode Fibre (ORANGE)

Connector	1 metre	2 metres	3 metres	5 metres	10 metres	20 metres
ST – LC	F2F402L0-01M	F2F402L0-02M	F2F4202L0-03M	F2F402L0-05M	F2F402L0-10M	F2F402L0-20M
SC – SC	A2F40277-01M	A2F40277-02M	A2F40277-03M	A2F40277-05M	A2F40277-10M	A2F40277-20M
SC – LC	F2F402L7-01M	F2F402L7-02M	F2F402L7-03M	F2F402L7-05M	F2F402L7-10M	F2F402L7-20M
LC – LC	F2F402LL-01M	F2F402LL-02M	F2F402LL-03M	F2F402LL-05M	F2F402LL-10M	F2F402LL-20M

50/125 Multimode 10G Fibre (AQUA)

Connector	1 metre	2 metres	3 metres	5 metres	10 metres	20 metres
ST – LC	F2F402L0-01M-G	F2F402L0-02M-G	F2F4202L0-03M-G	F2F402L0-05M-G	F2F402L0-10M-G	F2F402L0-20M-G
SC – SC	F2F40277-01M-G	F2F40277-02M-G	F2F40277-03M-G	F2F40277-05M-G	F2F40277-10M-G	F2F40277-20M-G
SC – LC	F2F402L7-01M-G	F2F402L7-02M-G	F2F402L7-03M-G	F2F402L7-05M-G	F2F402L7-10M-G	F2F402L7-20M-G
LC – LC	F2F402LL-01M-G	F2F402LL-02M-G	F2F402LL-03M-G	F2F402LL-05M-G	F2F402LL-10M-G	F2F402LL-20M-G

8.3/125 Singlemode Fibre (YELLOW)

Connector	1 metre	2 metres	3 metres	5 metres	10 metres	20 metres
ST – ST	F2F80200-01M	F2F80200-02M	F2F80200-03M	F2F80200-05M	F2F80200-10M	F2F80200-20M
ST – SC	F2F80207-01M	F2F80207-02M	F2F80207-03M	F2F80207-05M	F2F80207-10M	F2F80207-20M
ST – LC	F2F802L0-01M	F2F802L0-02M	F2F802L0-03M	F2F802L0-05M	F2F802L0-10M	F2F802L0-20M
SC – SC	F2F80277-01M	F2F80277-02M	F2F80277-03M	F2F80277-05M	F2F80277-10M	F2F80277-20M
SC – LC	F2F802L7-01M	F2F802L7-02M	F2F802L7-03M	F2F802L7-05M	F2F802L7-10M	F2F802L7-20M
LC – LC	F2F802LL-01M	F2F802LL-02M	F2F802LL-03M	F2F802LL-05M	F2F802LL-10M	F2F802LL-20M

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Fibre-Connection Types

ST – The ST connector uses a push-and-turn-to-lock system.

SC – The SC connector has a molded, plastic plug casing and a push/pull locking system.

LC – The LC connector features a small form factor and resembles the SC connector.

MTRJ – The MTRJ connector is a small form-factor connector with a square plastic casing that contains both fibre strands into a single polymer ferrule.

Name	Reference Standard	Speed	Segment Length	Recommended Cable type	Note
10Base-FL	IEEE802.3j	10Mbps	2km (MMF) 10km (SMF)	Multimode fibre (850nm) Singlemode fibre (1310nm)	
100Base-FX	IEEE802.3u	100Mbps	2km (MMF) 10km (SMF)	Multimode fibre (850nm) Singlemode fibre (1310nm)	Industry standard for Fast Ethernet over Not compatible with 10Base-FL
100Base-SX	IEEE802.3u	100Mbps	300m	Multimode fibre (850nm)	Compatible with 10Base-FL
100Base-BX	IEEE802.3u	100Mbps		Singlemode fibre (1310nm)	Requires the use of a special multiplexer
1000Base-SX	IEEE802.3z	1Gbps	275m (62.5/125) 550m (50/125)	Multimode fibre (850nm (62.5/125)) Multimode fibre (850nm (50/125))	
1000Base-LX	IEEE802.3z	1Gbps	300m (MMF) 5km (SMF)	Multimode fibre (850nm) Singlemode fibre (1310nm)	
1000Base-LH	Non-standard	1Gbps	10km	Singlemode fibre (1310nm)	Non-standard but industry accepted. Backwards compatible with 1000Base-LX
1000Base-ZX	Non-standard	1Gbps	70km	Singlemode fibre (1550nm)	Non-standard but industry accepted.
10GBase-SR	IEEE802.3ae	10Gbps	33m (62.5/125) 82m (50/125)	Multimode fibre (850nm (62.5/125)) Multimode fibre (850nm (50/125))	
10GBase-LX4	IEEE802.3ae	10Gbps	300m (MMF) 10km (SMF)	Multimode fibre (850nm) Singlemode fibre (1310nm)	Mode conditioning patch cord is required when using MMF
10GBase-LR	IEEE802.3ae	10Gbps	10km	Singlemode fibre (1310nm)	
10GBase-LRM	IEEE802.3ae	10Gbps	300m	Multimode fibre (1310nm)	
10GBase-ER	IEEE802.3ae	10Gbps	40km	Singlemode fibre (1550nm)	
10GBase-ZR	Non-standard	10Gbps	80km	Singlemode fibre (1550nm)	Non-standard but industry accepted.

Fibre and Copper - How do they compare?

	Copper	Fibre
Security	Can be compromised	Multimode
Distance	100 metres @ 1,000Mbps	40km or more at 10,000 Mbps
Electrical Noise	Vulnerable to cross talk and voltage interference	Impervious
Installation / Use	Thicker and heavier	Lightweight and thin diameter

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